IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx NEP 19.0040X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2021-08-03

Applicant: **mPower Electronics Inc.**
3046 Scott Blvd.
Santa Clara, CA 95054
United States of America

Equipment: **VOXI Fixed Photo-ionization Detector typed MP812, MP815**

Optional accessory:

Type of Protection: **Ex db, ib, tb**

Marking: Wireless version: Ex db ib IIC T6 Gb, Ex ib tb IIIC T80°C Db

Non-wireless version: Ex db IIC T6 Gb, Ex tb IIIC T80°C Db

Ta: -40°C~+70°C

Approved for issue on behalf of the IECEx Certification Body: **Xu Jianping**

Position: **Managing Director**

Signature: (for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Shanghai Inspection and Testing Institute of Instruments and Automatic Systems Co., Ltd. (SITIIAS)/
National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)
103 Cao Bao Road
Shanghai 200233
China

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Manufacturer: **mPower Electronics (Shanghai) Co., Ltd**
Building 2, 66 Chunzhong Road, Minhang District, Shanghai 201108
China

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

CN/NEP/ExTR19.0043/00

Quality Assessment Report:

CN/NEP/QAR18.0006/01

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The detector typed MP812 and MP815 comprise of a flameproof housing with a cover and a body. There is a cemented tempered glass window on the cover. A stainless steel adaptor is installed in the body with two sintered metal elements. The threaded joints have gaskets to achieve dust protection.

Ingress protection: IP65.

Electrical data: 12-30V DC, 2.5W Max, U_m=30V

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Contact the original manufacturer for information on the dimensions of the flameproof joints.
2. During the installation and operation in explosive gas atmosphere, the cable glands comply with IEC 60079-0 Ed 7, IEC 60079-1 Ed7 with size of 3/4 NPT shall be used.
3. During the installation and operation in combustible dust atmosphere, the cable glands comply with IEC 60079-0 Ed 7, IEC 60079-31 Ed 2 with size of 3/4 NPT shall be used.
4. During the installation and operation, observe the warning “WARNING-DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.” and “WARNING-POTENTIAL ELECTROSTATIC CHARGING HAZARD IN EXPLOSIVE DUST ATMOSPHERES-SEE INSTRUCTIONS.”
5. Service temperature at the entry point may higher than 70°C, use proper cable during installation.